

Denver Service Center Construction Planning (Design) - PWE 514

[illegible]



1 DSC Design

This subtask is for workloading DSC employees and some nonlabor costs for design. If it is an A/E-designed project, all A/E costs should be loaded in PWE 472. If this is an inhouse-designed project, all DSC costs for this subtask should be loaded under PWE 514.

23 Architectural Design/Documentation:

.01 During the Schematic Design Phase, responding to program requirements and preparing:

- .01 Review of Program and Budget
- .02 Conceptual site and building plans
- .03 Preliminary sections and elevations
- .04 Preliminary selection of building systems and materials
- .05 Development of approximate dimensions, areas and volumes
- .06 Perspective sketch(es)
- .07 Study model(s).

.02 During the Design Development Phase consisting of continued develop-ment and expansion of architectural Schematic Design Documents to establish the final scope, relationships, forms, size and appearance of the Project through:

- .01 Plans, sections and elevations
- .02 Typical construction details
- .03 Three-dimensional sketch(es)
- .04 Study model(s)
- .05 Final materials selection
- .06 Equipment layouts.

.03 During the Contract Documents Phase consisting of preparation of Drawings based on approved Design Development Documents setting forth in detail the architectural construction requirements for the Project.

.24 Structural Design/Documentation:

.01 During the Schematic Design Phase consisting of recommendations regarding basic structural materials and systems, analyses, and development of conceptual design solutions for:

- .01 A predetermined structural system
- .02 Alternate structural systems.

.02 During the Design Development Phase consisting of continued develop-ment of the specific structural system(s) and Schematic Design Documents in sufficient detail to establish:

- .01 Basic strnicrural system and dimensions
- .02 Final structural design criteria
- .03 Foundation design criteria
- .04 Preliminary sizing of major structural components
- .05 Critical coordination clearances
- .06 Outline Specifications or materials lists.

.03 During the Contract Documents Phase consisting of preparation of final structural engineering calculations, Drawings and Specifica-tions based on approved Design Development Documents, setting forth in detail the structural construction requirements for the Project.

.25 Mechanical Design/Documentation:

.01 During the Schematic Design Phase consisting of consideration of alternate materials, systems and equipment, and development of con-ceptual design solutions for:

- .01 Energy source(s)
- .02 Energy conservation
- .03 Heating and ventilating
- .04 Air conditioning
- .05 Plumbing
- .06 Fire protection
- .07 General space requirements.

.02 During the Design Development Phase consisting of continued develop-ment and expansion of mechanical Schematic Design Documents and development of outline Specifications or materials lists to establish:

- .01 Approximate equipment sizes and capacities
- .02 Preliminary equipment layouts
- .03 Required space for equipment
- .04 Required chases and clearances
- .05 Acoustical and vibration control
- .06 Visual impacts
- .07 Energy conservation measures.

.03 During the Contract Documents Phase consisting of preparation of final mechanical engineering calculations, Drawings and Specifications based on approved Design Development Documents, setting forth in detail the mechanical construction